FILE 'HOME' ENTERED AT 15:01:33 ON 25 MAR 2007 => file biosis medline caplus wpids uspatfull COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.21 0.21 FILE 'BIOSIS' ENTERED AT 15:02:03 ON 25 MAR 2007 Copyright (c) 2007 The Thomson Corporation FILE 'MEDLINE' ENTERED AT 15:02:03 ON 25 MAR 2007 FILE 'CAPLUS' ENTERED AT 15:02:03 ON 25 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'WPIDS' ENTERED AT 15:02:03 ON 25 MAR 2007 COPYRIGHT (C) 2007 THE THOMSON CORPORATION FILE 'USPATFULL' ENTERED AT 15:02:03 ON 25 MAR 2007 CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS) *** YOU HAVE NEW MAIL *** => s separat? (6a) RNA 12639 SEPARAT? (6A) RNA L1=> s l1 and adsorb? L22177 L1 AND ADSORB? => s 12 and desorb? L3125 L2 AND DESORB? => s 13 and acetylcellulose L44 L3 AND ACETYLCELLULOSE => dup rem 14 PROCESSING COMPLETED FOR L4 4 DUP REM L4 (0 DUPLICATES REMOVED) => d 15 bib abs 1-4 T.5 ANSWER 1 OF 4 USPATFULL on STN 2007:11484 USPATFULL AN Method for isolating and purifying a nucleic acid TI Mori, Toshihiro, Saitama, JAPAN IN Maniko, Yoshihiko, Saitama, JAPAN Hando, Rie, Saitama, JAPAN Takeshita, Yumiko, Saitama, JAPAN Inomata, Hiroko, Saitama, JAPAN US 2007009893 PT A1 20070111 US 2004-568101 ΑT A1 20040908 (10) WO 2004-JP13384 20040908 20060213 PCT 371 date JP 2003-317104 PRAT 20030909 JP 2003-339520 20030930 JP 2003-339521 20030930 JP 2003-427355 20031224 JP 2004-66801 20040310 DTUtility FS APPLICATION BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747, LREP

US

CLMN Number of Claims: 36 ECL Exemplary Claim: 1 1 Drawing Page(s) DRWN

LN.CNT 1930

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention is a method for isolating and purifying a nucleic acid, where generation of foams is able to be suppressed whereby the isolation and purification of a nucleic acid are easily and efficiently carried out, the method for isolating and purifying a nucleic acid comprising the step of: (1) contacting a sample solution containing nucleic acid to a solid phase to adsorb the nucleic acid onto the solid phase; (2) contacting a washing solution to the solid phase to wash the solid phase in such a state that the nucleic acid is adsorbed; and (3) contacting an elution solution to the solid phase to desorb the nucleic acid, wherein the sample solution containing nucleic acid contains an antifoaming agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
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ΑN 2005:1075898 CAPLUS

DN 143:342236

тT Method for selectively separating and purifying RNA from mixture of nucleic acids

IN Inomata, Hiroko; Hando, Rie

PΑ

Fuji Photo Film Co., Ltd., Japan SO

PCT Int. Appl., 75 pp. CODEN: PIXXD2

Patent DT

English LA

FAN.CNT 1

11111	PATENT NO.					KIND		DATE		APPLICATION NO.					DATE				
ΡI	WO	VO 2005093052				A1		20051006		WO 2005-JP6423				20050325					
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			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	
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		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
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		JP 2006271201				Α					JP 2005-80040					20050318			
	_	2006238854			Α					JP 2005-82283					20050322				
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PRAI		2004-91681			Α		2004												
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		TP 2004-225286				A A		2004											
		IP 2005-27918						20050203											
		JP 2005-29177				A		20050204											
	JP 2005-59057			A		2005													
	-	P 2005-80040				A		20050318											
	-	2005-82283 2005-JP6423				A		2005											
	WO	2005	-JP6	423		W		2005	0325										

AB A method for selectively separating and purifying RNA from a mixture solution of

nucleic acid containing DNA and RNA is provided. The method comprises the steps of adsorbing nucleic acid, washing, subjecting to a DNase

adsorbing porous membrane by a recovering solution, wherein a total amount of a DNase solution is 130 mL or less per 1 cm2 of the membrane. The washing solution contains a water-soluble organic solvent having a concentration of 50% by weight or less, and does not contain a chaotropic salt. Also part of the apparatus are a container, and a device for creating pressure gradient such pump. Purification of DNA by adsorption on 100% surface saponified acetyl cellulose is described. RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L_5 ANSWER 3 OF 4 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN 2004-216136 [21] AN WPIDS DNC C2004-085528 [21] Separation and purification of ribonucleic acids from nucleic acid mixtures, by adsorbing and desorbing nucleic acid in a mixture containing ribonucleic and deoxyribonucleic acid, to and from solid phase of organic macromolecule DC A97; B04; D16 MAKINO Y; MAKINO Y F P F C L; MORI T; MORI T F P F C L IN (FUJF-C) FUJI PHOTO FILM CO LTD; (MAKI-I) MAKINO Y; (MORI-I) MORI T PA CYC 33 PIA EP 1382677 A1 20040121 (200421)* EN 20[5] JP 2004049107 A 20040219 (200421) US 20040058370 A1 20040325 (200422) EN EP 1382677 B1 20050302 (200517) ΕN DE 60300356 E 20050407 (200525) DE 60300356 T2 20060406 (200625) DE ADT EP 1382677 A1 EP 2003-15676 20030718; JP 2004049107 A JP 2002-210833 20020719; DE 60300356 E DE 2003-600356 20030718; DE 60300356 E EP 2003-15676 20030718; US 20040058370 A1 US 2003-621412 20030718; DE 60300356 T2 DE 2003-600356 20030718; DE 60300356 T2 EP 2003-15676 20030718 FDT DE 60300356 E Based on EP 1382677 A; DE 60300356 T2 Based on EP 1382677 PRAI JP 2002-210833 20020719 2004-216136 [21] WPIDS AΒ EP 1382677 A1 UPAB: 20050906 NOVELTY - RNA from a nucleic acid mixture is separated and purified, by adsorbing and desorbing a nucleic acid in the nucleic acid mixture, containing RNA and DNA to and from a solid phase of an organic macromolecule. USE - The method is for separation and purification of ribonucleic acid from nucleic acid mixture. The nucleic acid is used in the form of a probe, a genomic nucleic acid, and a plasmid nucleic acid. It is useful in the detection and diagnosis of a human pathogen and genetic disorders, and in detection of a food contamination substance. It is used in positioning, identification, and isolation of an interesting nucleic acid for preparation of a gene map, cloning, and expression of recombinant. ADVANTAGE - The method uses a solid phase, which is excellent in separation performance, and washing efficiency, can be easily processed, and can be mass-produced for those having the same separation performance. DESCRIPTION OF DRAWINGS - The figure shows a conceptual diagram of a unit for separation and purification of nucleic acid. L5ANSWER 4 OF 4 USPATFULL on STN AN 2004:76592 USPATFULL ΤI Method for separating and purifying a nucleic acid ΙN Mori, Toshihiro, Asaka-shi, JAPAN Makino, Yoshihiko, Asaka-shi, JAPAN US 2004058370 A1 20040325 US 2003-621412 A1 20030718 (10) JP 2002-210833 20020719 PΙ

ΑI PRAI DT

Utility

treatment, washing and desorbing the RNA from a nucleic acid-

FS APPLICATION

LREP BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747

CLMN Number of Claims: 18 ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)

LN.CNT 951

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

An object of the present invention is to provide a method for separating and purifying a nucleic acid by adsorbing the nucleic acid in a test sample to a surface of a solid phase and desorbing the nucleic acid by washing and the like. The present invention provides a method for separating and purifying RNA from a nucleic acid mixture, comprising a step of: adsorbing and desorbing a nucleic acid in the nucleic acid mixture containing RNA and DNA to and from a solid phase of an organic macromolecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.